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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/541,540	05/19/2006	Yoon Seong Soh	6111-000003/US	1467
30596	7590	05/09/2008	EXAMINER	
HARNESS, DICKEY & PIERCE, P.L.C. P.O.BOX 8910 RESTON, VA 20195			VO, TUNG T	
		ART UNIT	PAPER NUMBER	
		2621		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/541,540	SOH ET AL.	
	Examiner	Art Unit	
	Tung Vo	2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 14 March 2008.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 22-25 is/are pending in the application.
 4a) Of the above claim(s) 1-21 is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 22-25 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 08 July 2005 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ . |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>01/05/07, 07/25/06, 06/30/06, 10/27/05, 09/26/05,</u>
<u>07/08/05</u> . | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| | 6) <input type="checkbox"/> Other: _____ . |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 22-25 are rejected under 35 U.S.C. 102(e) as being anticipated by Haneda (US 2003/0133506).

Re claim 22, Haneda discloses a method of determining a reference picture for decoding a current field macroblock (fig. 2), comprising:

determining a reference picture for the current field macroblock from a reference picture list composed of reference frames, the determined reference picture being one of a top field and a bottom field of a reference frame (105 of fig. 2, 105 of figs. 3C, 4, and 5, top or bottom data as field);

wherein the determining step determines a field having a same parity as the current macroblock (INDEX NUMBER 0, 1, and 2 represent the top data as even field as same parity) or a different parity from the current macroblock (INDEX 3,4, AND 5 represent bottom data that is odd field different parity from the even field) as a reference picture based upon reference picture index information (105 of fig. 2, B-picture based on INDEX NUMBER), index information for

the reference frame (103, 104, and 105 of fig. 2, INDEX information for the reference frame) and field parity of the current field macroblock (INDEX NUMBER of figs. 3C, 4, and 5).

Re claim 23, Haneda further discloses encoding/decoding the field macroblock using the determined reference picture (102 of fig. 2).

Re claim 24, Haneda further discloses wherein if the reference picture index information is an even index number, then the determined field has a same parity as the current field macroblock (INDEX NUMBER 0, 1, 2 of fig. 5 represent even index number of the top field, wherein a macro block line is divided into 2 sorts of fields, the even-number field (top field) and odd-number field (bottom field), [0006]).

Re claim 25, Haneda further discloses wherein if the reference picture index information is an even index number (INDEX NUMBER 0, 1, and 2 of fig. 5 represent even index number), then the determined field has a field parity different from the current field macroblock (INDEX NUMBER 3,4, & 5 of fig. 5).

3. Claims 22-25 are rejected under 35 U.S.C. 102(e) as being anticipated by Gonzales et al. (US 6,968,003).

Re claim 22, Gonzales discloses a method of determining a reference picture for decoding a current field macroblock (figs. 13 and 17)), comprising:

determining a reference picture for the current field macroblock from a reference picture list composed of reference frames (1701 of fig. 17), the determined reference picture being one of a top field and a bottom field of a reference frame (1702 and 1703 of fig. 17);

wherein the determining step determines a field having a same parity as the current macroblock (1704 of fig. 17, 1, 3, 5, 7 are odd number) or a different parity from the current

macroblock (even number are 2, 4, 6, 8; 1705 of fig. 17) as a reference picture based upon reference picture index information (1, 3, 5, 7 or 2, 3, 6, 8 are index number), index information for the reference frame (F= top is index information for the reference frame) and field parity of the current field macroblock (1, 3, 5, 7 or 2, 4, 6, 8 of fig. 17).

Re claim 23, Gonzales further discloses encoding/decoding the field macroblock using the determined reference picture (Top field, 1, 3, 5, 7 odd lines of fig. 17).

Re claim 24, Gonzales further discloses wherein if the reference picture index information is an even index number (2, 4, 6, 8 of fig. 17), then the determined field has a same parity as the current field macroblock (even field is computed).

Re claim 25, Haneda further discloses wherein if the reference picture index information is an even index number (2, 4, 6, 8 of fig. 17, even index number), then the determined field has a field parity (1704 of fig. 17) different from the current field macroblock (1705 of fig. 17).

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Fautier et al. (US 5,561,465) discloses video decoder with five page memory for decoding of intraframes, predicted frames and bidirectional frames.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung Vo whose telephone number is 571-272-7340. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on 571-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tung Vo/

Primary Examiner, Art Unit 2621